

Science Slam

Energy Revealed
Inquiry & Take Action Activity
Grade Level 9-10



Main Objectives

Learners investigate and explain a sustainability measure of their choice while presenting their information orally in a creative and dynamic measure.

Learning Outcomes

By the end of this activity, learners will:

- Identify and estimate energy inputs and outputs for examples devices and systems, and evaluate the efficiency of energy conversions.
- Describe and discuss the societal and environmental implications of the use of electrical energy.

Length of Activity

3 - 4 hours

Materials List

Internet enabled device
 Science Slam Learner handout
 Science Slam Marking Rubric
 Pencil/pen

Activity

Step 1: Brainstorming Activity (10-15 minutes)

- a. Focusing question: Based on the information that we have discussed on energy consumption/production/ and savings, which process is the most interesting to you?
- b. Further focus questions on ease of use, mechanisms, as well as ease installation saving

overall, most sustainable.

- c. Imagine that you are in a rural community that is looking to implement energy consumption/production technologies. You don't have access to any digital technology. How will you educate them about your ideas?
- d. In groups have learners discuss what they feel is the best or most interesting topic covered in the unit.
- e. Brainstorm ways they could present information in the question.

Step 2: Presentation (20-30 minutes)

- a. Introduction of Science Slam- A Science Slam is a new and popular method of bringing scientific knowledge to the masses. It doesn't require any technology. Much like a Poetry Slam, a Science Slam relies on the spoken word. Examples:
 - [IBM Research 5 in 5 Science Slam: Lattice Cryptography](#)
 - [What the Heck is a Science Slam?](#)
 - [Glenn Hall - Science Slam YYC](#)
- b. As a class or individually, review the key rules for the Science Slam in the learner handout and the marking rubric.

Step 3: Learner Inquiry (60 – 75 minutes)

- a. Direct learners to choose one topic from the theme of Energy Conservation or Sustainable Production. These questions can be done as individual learner activities or group response. Reference the learner handout and the learner rubric. Energy Revealed has provided an editable rubric for this activity. We encourage learners to edit the rubric to meet their needs.

Step 4: Learner Presentation (variable dependent on time)

- a. Have learners present their findings. Reference the rubric evaluations based on the grade level.